



PATENT
Atty Docket No. 1113-016/MMM

#6
Ext 3 mos.
election
JMKCHILLA
11/7/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Kamashita
Application Number: 09/925,905
Filing Date: August 9, 2001
Title: Solid Picture Element
Manufacturing Method

Date of Amendment: October 25, 2002

Examiner: Brock II, Paul E.
Art Unit: 2815

Certificate of Mailing Under 37 C.F.R. § 1.8

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on October 25, 2002 as first class mail in an envelope addressed to The Assistant Commissioner For Patents, Washington, D.C. 20231.

Mark M. Meininger
Mark M. Meininger (Registration No. 32428)
Attorney of Record

RECEIVED
NOV 1 2002
TECHNOLOGY CENTER 2800

RESPONSE TO RESTRICTION REQUIREMENT

11/07/2002 JMKCHILLA 00000002 500241 09925905

01 FC:1253

Assistant Commissioner for Patents
Washington, D.C. 20231

Applicant responds as follows to the June 25, 2002 restriction requirement.

Claims 18-24 and 40-55 are in the application. Claims 18, 40, 47, 50, and 54 are in independent form.

The Examiner states that the application contains claims directed to the following species of the claimed invention:

- a. Species I depicted in figures 5a- 5c;
- b. Species II depicted in figures 6a- 6c;
- c. Species III depicted in figures 7a- 7c; and
- d. Species IV depicted in figures 8a- 8c.

and requires election of a single one of the disclosed species and a listing of the claims readable thereon.

Applicant elect with traverse that claims of Species I. Claims 18-24 and 40-46 are readable on the elected species.

10/31/2002 MMEKONEN 00000013 09925905

01 FC:1252

400.00 OP

Applicant traverses the restriction requirement because at least claim 18 is generic to the claims of Species I as well as to the claims of Species II, III, and IV.

Claims 47-49 are readable on Species II. Claims 50-53 are readable on Species III. Claims 54 and 55 are readable on Species IV. At least claim 18 is generic to elected claims 40-46 as well as claims 47-55.

Claim 18 recites:

locating a charge accumulation region of a first conductive type within a semiconductor substrate having a first surface such that no portion of the charge accumulation region contacts the first surface of the semiconductor substrate;

locating a depletion prevention region within the semiconductor substrate between the charge accumulation region and the first surface;

locating a transfer gate on the first surface of the semiconductor substrate such that the transfer gate overlaps a portion of the charge accumulation region; and

locating a transistor within the semiconductor substrate, the transistor being in communication with the transfer gate for receiving a charge from the charge accumulation region and amplifying the charge.

Claim 18 is generic to the claims of Species I, II, III, and IV for the following reasons.

Claims in each of the Species recite "a charge accumulation region of a first conductive type within a semiconductor substrate having a first surface such that no portion of the charge accumulation region contacts the first surface of the semiconductor substrate." Claims in each of the Species recite "a depletion prevention region within the semiconductor substrate between the charge accumulation region and the first surface." Claims in each of the Species recite "a transfer gate on the first surface of the semiconductor substrate such that the transfer gate overlaps a portion of the charge accumulation region." Claims in each of the Species recite "a transistor within the semiconductor substrate, the transistor being in communication with the transfer gate for receiving a charge from the charge accumulation region and amplifying the charge."

Applicant submits, therefore, that at least claim 18 is generic to the claims of Species I-IV. Upon allowance of generic claim 18 a reasonable number of other species may be included in the application. 37 CFR 1.141. Accordingly, applicant requests that the restriction requirement be withdrawn upon allowance of generic claim 18.

Applicant believes the application is in condition for examination and respectfully requests the same.

IPSOLON LLP
805 SW BROADWAY #2740
PORTLAND, OREGON 97205
TEL. (503) 249-7066
FAX (503) 249-7068

Respectfully Submitted,



Mark M. Meininger
Registration No. 32,428